

OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

Edited by

FRANCIS HEMMING, C.M.G., C.B.E.

Secretary to the Commission

VOLUME 14. Part 18. Pp. 403—424

OPINION 434

Use of the Plenary Powers to secure that the names
Upogebia [Leach], [1814], and *Processa* Leach, [1815],
shall be the oldest available names for the genera in
question and that the family-group names based upon
those generic names shall be the oldest available names
for the family-group taxa concerned

LONDON :

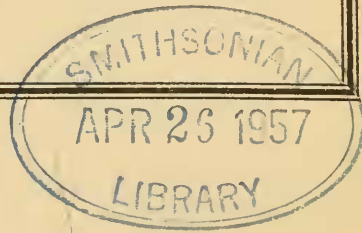
Printed by Order of the International Trust for
Zoological Nomenclature
and

Sold on behalf of the International Commission on Zoological
Nomenclature by the International Trust at its Publications Office
41, Queen's Gate, London, S.W.7
1956

Price Fourteen Shillings and Sixpence

(All rights reserved)

Issued 5th December, 1956



INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN OPINION 434

A. The Officers of the Commission

Honorary Life President : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts., England*)

President : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953)

Vice-President : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

Secretary : Mr. Francis HEMMING (*London, England*) (27th July 1948)

B. The Members of the Commission

(Arranged in order of precedence by reference to date of election or of most recent re-election as prescribed by the International Congress of Zoology)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) (1st January 1947)

Senor Dr. Angel CABRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th July 1948)

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw, Poland*) (15th June 1950)

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt a.M., Germany*) (5th July 1950)

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu Berlin, Germany*) (5th July 1950)

Senhor Dr. Afranio do AMARAL (*S. Paulo, Brazil*) (12th August 1953) (*Vice-President*)

Professor J. R. DYMOND (*University of Toronto, Toronto, Canada*) (12th August 1953)

Professor J. Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953) (*President*)

Professor Harold E. VOKES (*Johns Hopkins University, Baltimore, Maryland, U.S.A.*) (12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N.Y., U.S.A.*) (12th August 1953)

Mr. P. C. SYLVESTER-BRADLEY (*Sheffield University, Sheffield, England*) (12th August 1953)

Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) (12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation, Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*) (29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum v Praze, Prague, Czechoslovakia*) (30th October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*) (6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November 1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*) (16th December 1954)

OPINION 434

USE OF THE PLENARY POWERS TO SECURE THAT
THE NAMES "UPOGEBIA" [LEACH], [1814], AND
"PROCESSA " LEACH, [1815], SHALL BE THE
OLDEST AVAILABLE NAMES FOR THE GENERA
IN QUESTION AND THAT THE FAMILY-GROUP
NAMES BASED UPON THOSE GENERIC NAMES
SHALL BE THE OLDEST AVAILABLE NAMES
FOR THE FAMILY-GROUP TAXA
CONCERNED

RULING :—(1) The following action is hereby taken
under the Plenary Powers, namely :—

(a) The under-mentioned generic names are hereby
suppressed for purposes of the Law of Priority
but not for those of the Law of Homonymy :—

(i) *Gerbios* Bosc, 1813 ;

(ii) *Thalassalpes* Bosc, 1813 ;

(b) The under-mentioned family-group names are
hereby suppressed for the purposes of the Law of
Priority but not for those of the Law of
Homonymy :—

(i) NIKIDAE Bate, 1888 (type genus : *Nika* Risso,
1816) ;

(ii) HECTARTHROPIDAE Bate, 1888 (type genus :
Hectarthropus Bate, 1888) ;

(iii) GEBIIDAE (correction of GEBIDAE) Dana, 1852
(type genus : *Gebia* Leach, 1815).

(2) The under-mentioned generic names are hereby placed on the *Official List of Generic Names in Zoology* with the Name Numbers severally specified below :—

- (a) *Callianassa* [Leach], [1814] (gender : feminine) (type species, by monotypy : *Cancer (Astacus) subterraneus* Montagu, 1808) (Name No. 1030) ;
- (b) *Galathea* Fabricius, 1793 (gender : feminine) (type species, by selection by Latreille (1810) : *Cancer strigosus* Linnaeus, 1761) (Name No. 1031) ;
- (c) *Processa* Leach, [1815] (gender : feminine) (type species, by monotypy : *Processa canaliculata* Leach, [1815]) (Name No. 1032) ;
- (d) *Thalassina* Latreille, 1806 (gender : feminine) (type species, by monotypy : *Thalassina scorpionides* Latreille, 1806) (Name No. 1033) ;
- (e) *Upogebia* [Leach], [1814] (gender : feminine) (type species, by monotypy : *Cancer (Astacus) stellatus* Montagu, 1808) (Name No. 1034).

(3) The under-mentioned specific names are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *subterraneus* Montagu, 1808, as published in the combination *Cancer (Astacus) subterraneus* (specific name of type species of *Callianassa* [Leach], [1814]) (Name No. 1050) ;
- (b) *strigosus* Linnaeus, 1761, as published in the combination *Cancer strigosus* (specific name of type species of *Galathea* Fabricius, 1793) (Name No. 1051) ;
- (c) *canaliculata* Leach, [1815], as published in the combination *Processa canaliculata* (specific name of type species of *Processa* Leach, [1815]) (Name No. 1052) ;

(d) *stellatus* Montagu, 1808, as published in the combination *Cancer (Astacus) stellatus* (specific name of type species of *Upogebia* [Leach], [1814]) (Name No. 1053) ;

(e) *anomalus* Herbst, 1804, as published in the combination *Cancer (Astacus) anomalus* (Name No. 1054).

(4) The under-mentioned generic names are hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name Numbers severally specified below :—

(a) *Calypso* Risso, 1816 (a junior objective synonym of *Melia* Bosc, 1813) (Name No. 745) ;

(b) *Egeon* Bosc, 1813 (a junior homonym of *Egeon* de Montfort, 1808) (Name No. 746) ;

(c) *Egeon* Risso, 1816 (a junior homonym of *Egeon* de Montfort, 1808) ; (Name No. 747) ;

(d) *Gebia* Leach, 1815 (a junior objective synonym of *Upogebia* [Leach], [1814]) (Name No. 748) ;

(e) *Gerbios* Bosc, 1813, as suppressed under the Plenary Powers under (1)(a)(i) above (Name No. 749) ;

(f) *Janira* Risso, 1816 (a junior homonym of *Janira* [Leach], [1814], and a junior objective synonym of *Melia* Bosc, 1813) (Name No. 750) ;

(g) *Thalassalpes* Bosc, 1813, as suppressed under the Plenary Powers under (1)(a)(ii) above (Name No. 751).

(5) The under-mentioned family-group names are hereby placed on the *Official List of Family-Group Names in Zoology* with the Name Numbers severally specified below :—

(a) CALLIANASSIDAE Dana, 1852 (type genus : *Callianassa* [Leach], [1814]) (Name No. 93) ;

- (b) GALATHEIDAE (correction of GALATEADAE) Samouelle, 1819 (first published in correct form as GALATHEIDAE by White, 1847) (type genus : *Galathea* Fabricius, 1793) (Name No. 94) ;
 - (c) PROCESSIDAE Ortmann, 1896 (type genus : *Processa* Leach, [1815]) (Name No. 95) ;
 - (d) THALASSINIDAE (correction of THALASSINIDES) Latreille, 1831 (first published in correct form as THALASSINIDAE by White, 1847) (type genus : *Thalassina* Latreille, 1806) (Name No. 96) ;
 - (e) UPOGEBIINAE Borradaile, 1903 (type genus : *Upogebia* [Leach], [1814]) (Name No. 97).
- (6) The under-mentioned family-group names are hereby placed on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* with the Name Numbers severally specified below :—
- (a) GALATEADAE Samouelle, 1819 (type genus : *Galathea* Fabricius, 1793) (an Invalid Original Spelling for GALATHEIDAE) (Name No. 79) ;
 - (b) GEBIIDAE (correction of GEBIDAE) Dana, 1852 (first published in correct form as GEBIIDAE by Miers, 1876) (type genus : *Gebia* Leach, 1815), as suppressed under the Plenary Powers under (1)(b)(iii) above (Name No. 80) ;
 - (c) GEBIDAE Dana, 1852 (type genus : *Gebia* Leach, 1815) (an Invalid Original Spelling for GEBIIDAE, a name suppressed under the Plenary Powers under (1)(b)(iii) above (Name No. 81) ;
 - (d) HECTARTHROPIDAE Bate, 1888 (type genus : *Hectarthropus* Bate, 1888), as suppressed under the Plenary Powers under (1)(b)(ii) above (Name No. 82) ;

- (e) NIKIDAE Bate, 1888 (type genus : *Nika* Risso, 1816), as suppressed under the Plenary Powers under (1)(b)(i) above (Name No. 83) ;
- (f) THALASSINIDES Latreille, 1831 (type genus : *Thalassina* Latreille, 1806) (an Invalid Original Spelling for THALASSINIDAE) (Name No. 84).

I. THE STATEMENT OF THE CASE

On 7th May 1954, Dr. L. B. Holthuis (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) submitted to the International Commission on Zoological Nomenclature the following application designed to secure that the generic names *Processa* Leach, [1815], and *Upogebia* [Leach], [1814] (Class Crustacea, Order Decapoda) should be the oldest available names for the genera commonly so known :—

**Proposed use of the Plenary Powers to validate the generic names
“ Upogebia ” [Leach], [1814], and “ Processa ” Leach, [1815]
(Class Crustacea, Order Decapoda)**

By L. B. HOLTHUIS

(*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)

The purpose of the present application is to ask the International Commission on Zoological Nomenclature to use its Plenary Powers in order to suppress two long-forgotten generic names which are senior synonyms of two well-known names that have been, and still are, widely used in the literature dealing with macrurous Decapod Crustacea.

2. The original references for the generic names cited in the present application are the following :—

Callianassa [Leach], [1814], Brewster's *Edinburgh Ency.* 7(2) : 400 (gender : feminine) (type species, by monotypy : *Cancer (Astacus) subterraneus* Montagu, 1808 (*Trans. linn. Soc. Lond.* 9 : 88)) ;

Calypso Risso, 1816, *Hist. nat. Crust. Nice* : 74 (gender : feminine) (type species, by monotypy : *Calypso periculosa* Risso, 1816, *Hist. nat. Crust. Nice* : 74 (= *Cancer strigosus* Linnaeus, 1761, *Fauna svec.* (ed. 2) : 495)) ;

Egeon Bosc, 1813, *Nouv. Bull. Sci. Soc. philomat. Paris* 3(66) : 233 (gender : masculine) (type species, by monotypy : *Cancer cataphractus* Olivi, 1792, *Zool. adriat.* : 50) (an invalid junior homonym of *Egeon* de Montfort, 1808 (*Conchyl. syst.* 1 : 166)) ;

Egeon Risso, 1816, *Hist. nat. Crust. Nice* : 99 (gender : masculine) (type species, by monotypy : *Egeon loricatus* Risso, 1816, *Hist. nat. Crust. Nice* : 100 (= *Cancer cataphractus* Olivi, 1792, *Zool. adriat.* 50)) (an invalid junior homonym of *Egeon* de Montfort, 1808) ;

Galathea Fabricius, 1793, *Ent. syst.* 2 : 471 (gender : feminine) (type species, selected by Latreille, 1810 (*Consid. gén. Crust. Arachn. Ins.* : 422) : *Cancer strigosus* Linnaeus, 1761, *Fauna svec.* (ed. 2) : 495) ;

Gebia Leach, 1815, *Trans. linn. Soc. Lond.* 11 : 342 (gender : feminine) (type species, selected by Fowler, 1912 (*Ann. Rep. New Jersey State Mus.* 1911 : 361) : *Cancer (Astacus) stellatus* Montagu, 1808, *Trans. linn. Soc. Lond.* 9 : 89) (a junior objective synonym of *Upogebia* [Leach], [1814]) ;

Gebios Risso, 1822, *J. Phys. Chim. Hist. nat. Arts, Paris* 95 : 243 (gender : feminine) (type species, by monotypy : *Gebios davianus* Risso, 1822, *J. Phys. Chim. Hist. nat. Arts, Paris* 95 : 243 (= *Astacus tyrrhenus* Petagna, 1792, *Institut. entom.* : 418)) ;

Gerbios Bosc, 1813, *Nouv. Bull. Sci. Soc. philomat. Paris* 3(66) : 233 (gender : feminine) (type species, by present selection : *Thalassina littoralis* Risso, 1816, *Hist. nat. Crust. Nice* : 76 (= *Astacus pusillus* Petagna, 1792, *Institut. entom.* : 418)) ;

Janira Risso, 1816, *Hist. nat. Crust. Nice* : 175 (gender : feminine) (substitute name for *Calypso* Risso, 1816, *Hist. nat. Crust. Nice* : 74) (an invalid junior homonym of *Janira* [Leach], [1814]) ;

Melia Bosc, 1813, *Nouv. Bull. Sci. Soc. philomat. Paris* 3(66) : 233 (gender : feminine) (type species, by present selection : *Calypso periculosa* Risso, 1816, *Hist. nat. Crust. Nice* : 74 (= *Cancer strigosus* Linnaeus, 1761, *Fauna svec.* (ed. 2) : 495)) ;

Nika Risso, 1816, *Hist. nat. Crust. Nice* : 84 (gender : feminine) (type species, by selection by Milne Edwards (H.), 1837 (Cuvier's *Règne anim.* ed. 4 (Disciples' Ed.) 18 : pl. 52 fig. 1) : *Nika edulis* Risso, 1816, *Hist. nat. Crust. Nice* : 85) ;

Processa Leach, [1815], *Malac. podophth. Brit.* (4) : explanation of pl. 41 (gender : feminine) (type species, by monotypy : *Processa canaliculata* Leach, [1815], *Malac. podophth. Brit.* (4) : explanation of pl. 41) ;

Thalassalpes Bosc, 1813, *Nouv. Bull. Sci. Soc. philomat. Paris* 3(66) : 233 (gender : masculine) (type species, by present selection : *Nika edulis* Risso, 1816, *Hist. nat. Crust. Nice* : 85) ;

Thalassina Latreille, 1806, *Gen. Crust. Ins.* 1 : 51 (gender : feminine) (type species, by monotypy : *Thalassina scorpionides* Latreille, 1806, *Gen. Crust. Ins.* 1 : 52 (= *Cancer (Astacus) anomalus* Herbst, 1804, *Vers. Naturgesch. Krabben Krebse* 3(4) : 45)) ;

Upogebia [Leach], [1814], Brewster's *Edinburgh Ency.* 7(2) : 400 (gender : feminine) (type species, by monotypy : *Cancer (Astacus) stellatus* Montagu, 1808, *Trans. linn. Soc. Lond.* 9 : 89).

3. In March 1813 (in *Nouv. Bull. Sci. Soc. philomat. Paris* 3(66) : 233, 234) a paper was published, entitled "Essai historique sur les Crustacés de la mer de Nice, par M. Rizzo. (Extrait d'un rapport fait à l'Institut par M. Bosc.)". As is shown by its title this publication is an extract of a report by L. A. G. Bosc on a manuscript submitted by A. Risso (the spelling Rizzo is incorrect) to the Institut de France. Bosc must therefore be regarded as the author of the foregoing publication. In this paper four new genera (*Gerbios*, *Melia*, *Thalassalpes*, and *Egeon*) are mentioned and briefly characterised. Though the genera evidently were originally proposed by Risso in his manuscript, the brief characterisations (which hardly can be given the name of definitions) are clearly made by Bosc in his own words ; there is no indication whatsoever that they have been made by Risso. Though it does not seem very fair, we must, I believe, treat Bosc as the author of these names. That this question is difficult is shown by the way in which the authorship of these four generic names is treated in Neave's *Nomenclator Zoologicus*, where the author of two of the names (*Egeon* and *Thalassalpes*) is given as "Risso", of one (*Gerbios*) as "Bosc", while of the fourth (*Melia*) the author is indicated as "Bosc in Risso".

4. In 1816 Risso published his manuscript referred to above as a book under the title *Histoire naturelle des Crustacés des environs de Nice*. In this book the author used only one of the four generic names mentioned by Bosc (1813), namely, *Egeon*, which is treated by Risso as a name for a new genus. The name *Calypso* was used by Risso

instead of that of *Melia*, probably because, as Bosc had pointed out in his 1813 paper, the name *Melia* has already been used for a genus of plants ; in an *Erratum* in his 1816 publication Risso substituted the name *Janira* for *Calypso*, because the latter name “ ayant déjà employé par les Naturalistes ” (again for a genus of plants). Bosc's (1813) remark that *Gerbios* “ paraît infiniment se rapprocher des thalassines de Latreille ” probably made Risso (1816) abandon his name *Gerbios* and use *Thalassina* Latreille, 1806, instead. For unknown reasons Risso (1816) substituted the name *Nika* for that of *Thalassalpes*. It is evident that Risso did not consider the four generic names mentioned in Bosc's (1813) paper as validly published. In any case he entirely ignored Bosc's publication.

5. The name *Egeon* Bosc, 1813, as well as *Egeon* Risso, 1816, is invalid, since it is preoccupied by the older generic name *Egeon* de Montfort, 1808. The names *Melia* Bosc, 1813, *Calypso* Risso, 1816, and *Janira* Risso, 1816, are objective synonyms of one another. They are based on an old figure of Rondelet's which represents *Galathea strigosa* (L.) ; Bosc's and Risso's three generic names thus are junior (subjective) synonyms of *Galathea* Fabricius, 1793, a genus of which *Galathea strigosa* is the type species.

6. Bosc's (1813) two other generic names *Thalassalpes* and *Gerbios*, however, prove to be the oldest available names for the genera concerned. *Thalassalpes* was very briefly characterised by Bosc : “ n'a de pinces qu'à une des pattes antérieures ”. This single character, however, is sufficient to distinguish the genus from all other European genera. Bosc does not name any species as belonging in his genus *Thalassalpes*, but since the latter is obviously identical with *Nika* Risso, 1816, the type species of the latter genus, *Nika edulis* Risso, 1816, should be regarded also as the type species of the former, and it is so selected here. In carcinological literature two different names have been regularly used for this genus. These two names are *Processa* Leach, [1815], and *Nika* Risso, 1816. The former name has been used by at least 64 authors (by 44 of these in papers published since 1914), the latter name by at least 114 authors (by about 22 of these in papers published since 1914). The name *Processa*, being the older of the two, has been generally accepted in modern literature and during the last forty years has been used by all specialists in the group. The name *Thalassalpes* Bosc, on the other hand, has been completely overlooked, and I do not know of a single author having used it since the original publication by Bosc in 1813. A substitution of the name *Thalassalpes* for *Processa* would greatly upset carcinological nomenclature and a suppression of the former name is, in my opinion, fully justified.

7. The case of the name *Gerbios* is very similar to that of *Thalassalpes*. Bosc's description of the genus *Gerbios* is very short, but makes it

sufficiently clear that it is based on the species that Risso later (in 1816) described as *Thalassina littoralis*, and which at present is known as *Upogebia pusilla* (Petagna, 1792). The generic name *Gerbios* Bosc, 1813, thus becomes a senior (subjective) synonym of the name *Upogebia* [Leach], [1814]. For the genus in question several names have been used : (1) The oldest available name, *Gerbios* Bosc, 1813, as far as is known to me, has been used only by the original author. (2) The name *Upogebia* [Leach], [1814], at present is currently adopted in carcinological literature. (3) The name *Gebia* Leach, 1815, a junior objective synonym of *Upogebia* [Leach], [1814], during the previous century was practically exclusively used to indicate the present genus ; later it was replaced more and more by the name *Upogebia*, while at present it is employed by very few authors only. It was Stebbing (1893, *Hist. Crust.* : 185) who first pointed out that the name *Upogebia* has priority over *Gebia*, and he consequently adopted the former of the two names. In this he was almost immediately followed by the majority of carcinologists and at present the name *Upogebia* has become firmly established. Judging by an unpublished bibliography which I have been preparing during the last few years, at least 100 authors used the name *Gebia* before 1900, and less than 5 authors during that period employed the name *Upogebia*. After 1920 more than 80 authors have used the name *Upogebia*, and about 15 that of *Gebia* (practically none of the latter being a specialist in Crustacea). In my opinion, stability of carcinological nomenclature would be greatly furthered by the suppression of the practically unknown generic name *Gerbios* and by the validation of the widely used name *Upogebia*.

8. The position of the generic name *Gebios* Risso, 1822, which generally is considered to be synonymous with *Upogebia* [Leach] should also be discussed here. Risso (1822 : 243) when using the name *Gebios* for the first time, included two species in it. One of these is the new species *Gebios davianus*, the other was not cited by name, but it was evidently *Thalassina littoralis* Risso, 1816, since it was referred to as the species which in Risso's *Hist. nat. Crust. Nice* (1816) had been placed in the genus *Thalassina* Latreille. As *Gebios daviana* Risso, 1822, was the only nominal species assigned to *Gebios* in the original publication of that name, it becomes its type species by monotypy. Since *Gebios daviana* doubtless is identical with the species known at present under the name *Callianassa tyrrhena* (Petagna, 1792), the generic name *Gebios* Risso, 1822, becomes a junior subjective synonym of the name *Callianassa* [Leach], [1814]. It is possible that in using the name *Gebios*, Risso actually intended to restore the old genus *Gerbios*, but this cannot be proved.

9. The only two names that form a menace to the stability of the nomenclature of the taxa discussed in the present application thus are *Gerbios* Bosc, 1813, and *Thalassalpes* Bosc, 1813, for which reason their suppression is requested.

10. The present opportunity is used to propose the insertion in the *Official List of Generic Names in Zoology* of the generic names *Callianassa*, *Galathea* and *Thalassina* mentioned above. I have convinced myself that these three names are available in so far that they are not junior homonyms of other generic names in zoology. Furthermore, they have been in general use in carcinological literature almost from the moment that they were first published, and their position has remained unchallenged throughout. All three are the names of type genera of well-known families and two of them (*Galathea* and *Thalassina*) are even the type genera of supra-familial groups. The insertion of these names in the *Official List* is therefore fully justified.

11. The genus *Upogebia* [Leach], [1814], is currently considered the type of the sub-family UPOGEBIINAE Borradaile, 1903. An older name for this sub-family is GEBIINAE (correction of GEBIDAE) Dana, 1852. As the name UPOGEBIINAE is at present generally used, while its older objective synonym is not accepted, it seems advisable to me to place the name UPOGEBIINAE on the *Official List* and GEBIINAE on the *Official Index of Family-Group Names*. A similar case is offered by the family name PROCESSIDAE Ortmann, 1896. This name possesses two older, but subjective, synonyms, namely NIKIDAE Bate, 1888 (*Rep. Voy. Challenger, Zool. 24* : xii, xli, 480, 503) (type genus *Nika* Risso, 1816 (*Hist. nat. Crust. Nice* : 84)) and HECTARTHROPIDAE Bate, 1888 (*Rep. Voy. Challenger, Zool. 24* : 481, 883) (type genus *Hectarthropus* Bate, 1888 (*Rep. Voy. Challenger, Zool. 24* : 889)). The genera *Nika* Risso, 1816, and *Hectarthropus* Bate, 1888, are subjective junior synonyms of *Processa* Leach, [1815]. As the name PROCESSIDAE is widely used, while those of NIKIDAE and HECTARTHROPIDAE have been almost completely forgotten, I consider that it is advisable to give the name PROCESSIDAE Ortmann, 1896, priority over the names NIKIDAE Bate, 1888 and HECTARTHROPIDAE Bate, 1888, notwithstanding the fact that the latter are older. For this reason the insertion in the *Official List of Family-Group Names in Zoology* of the name PROCESSIDAE has been requested.

12. The concrete proposals which I now submit for consideration are that the International Commission on Zoological Nomenclature should :—

(1) use its Plenary Powers :—

(a) to suppress the under-mentioned generic names for the purposes of the Law of Priority, but not for those of the Law of Homonymy :—

(i) *Gerbios* Bosc, 1813 ;

(ii) *Thalassalpes* Bosc, 1813 ;

(b) to validate the under-mentioned generic names :—

- (i) *Upogebia* [Leach], [1814] ;
- (ii) *Processa* Leach, [1815] ;

(2) place on the *Official List of Generic Names in Zoology* the under-mentioned generic names with the type species and gender specified in paragraph 2 of the present application :—

- (a) *Callianassa* [Leach], [1814] ;
- (b) *Galathea* Fabricius, 1793 ;
- (c) *Processa* Leach, [1815], as validated under (1)(b)(ii) above ;
- (d) *Thalassina* Latreille, 1806 ;
- (e) *Upogebia* [Leach], [1814], as validated under (1)(b)(i) above ;

(3) place on the *Official Index of Rejected and Invalid Generic Names in Zoology* the under-mentioned generic names :—

- (a) *Calypso* Risso, 1816 (an objective junior synonym of *Melia* Bosc, 1813) ;
- (b) *Egeon* Bosc, 1813 (a junior homonym of *Egeon* de Montfort, 1808) ;
- (c) *Egeon* Risso, 1816 (a junior homonym of *Egeon* de Montfort, 1808) ;
- (d) *Gebia* Leach, 1815 (a junior objective synonym of *Upogebia* [Leach], [1814]) ;
- (e) *Gerbios* Bosc, 1813, as suppressed under (1)(a)(i) above ;
- (f) *Janira* Risso, 1816 (a junior objective synonym of *Melia* Bosc, 1813, and a junior homonym of *Janira* [Leach], [1814]) ;
- (g) *Thalassalpes* Bosc, 1813, as suppressed under (1)(a)(ii) above ;

(4) place on the *Official List of Specific Names in Zoology* the under-mentioned specific names :—

- (a) *anomalus* Herbst, 1804, as published in the combination *Cancer (Astacus) anomalus* ;
- (b) *canaliculata* Leach, [1815], as published in the combination *Processa canaliculata* ;
- (c) *stellatus* Montagu, 1808, as published in the combination *Cancer (Astacus) stellatus* ;

- (d) *strigosus* Linnaeus, 1761, as published in the combination *Cancer strigosus* ;
 - (e) *subterraneus* Montagu, 1808, as published in the combination *Cancer (Astacus) subterraneus* ;
- (5) place on the *Official List of Family-Group Names in Zoology* the under-mentioned family-group names :—
- (a) CALLIANASSIDAE Dana, 1852, *Proc. Acad. nat. Sci. Philad.* 6 : 12, 14, 19 (type genus : *Callianassa* [Leach], [1814]) ;
 - (b) GALATHEIDAE (correction by White, 1847 (*List Crust. Brit. Mus.* : 65) of GALATEADAE) Samouelle, 1819, *Entomologist's useful Compendium* : 92 (type genus : *Galathea* Fabricius, 1793) ;
 - (c) PROCESSIDAE Ortmann, 1896, *Zool. Jb. Syst.* 9 : 415, 424 (type genus : *Processa* Leach, [1815]) ;
 - (d) THALASSINIDAE (correction by White, 1847 (*List Crust. Brit. Mus.* : 70) of THALASSINIDES) Latreille, 1831, *Cours d'Entomol.* : 377 (type genus : *Thalassina* Latreille, 1806) ;
 - (e) UPOGEBIINAE Borradaile, 1903, *Ann. Mag. nat. Hist.* (7) 12 : 542 (type genus : *Upogebia* [Leach], [1814]) ;
- (6) place on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* the undermentioned names :—
- (a) GALATEADAE Samouelle, 1819, *Entomologist's useful Compendium* : 92 (an Invalid Original Spelling for GALATHEIDAE) ;
 - (b) GEBIIDAE (correction by Miers (1876, *Catal. Crust. New Zealand* : 70) of GEBIDAE) Dana, 1852, *Proc. Acad. nat. Sci. Philad.* 6 : 12, 13, 19 (type genus : *Gebia* Leach, 1815) (a family-group name, the type species, *Cancer (Astacus) stellatus* Montagu, 1808, of which is also the type species of *Upogebia* [Leach], [1814] (a name proposed under (2)(e) above, to be placed on the *Official List of Generic Names in Zoology*), which is the type genus of the sub-family UPOGEBIINAE Borradaile, 1903, proposed, under (5)(e) above, to be placed on the *Official List of Family-Group Names in Zoology*) ;
 - (c) GEBIDAE Dana, 1852, *Proc. Acad. nat. Sci. Philad.* 6 : 12, 13, 19 (an Invalid Original Spelling of GEBIIDAE) ;
 - (d) THALASSINIDES Latreille, 1831, *Cours d'Entomol.* : 377 (an Invalid Original Spelling for THALASSINIDAE).

2. Supplementary Application by Mr. Francis Hemming in relation to the family-group-name aspects of Dr. Holthuis's proposals : When in October 1954 arrangements were being made in the Office of the Commission for the despatch of Dr. Holthuis's application to the printer, Mr. Hemming, as Secretary, took the view that action by the Commission additional to that proposed by Dr. Holthuis would be required if, as Dr. Holthuis desired, the family-group names based respectively upon the generic names *Processa* Leach, [1815], and *Upogebia* [Leach], [1814], were to be preserved. Dr. Holthuis was not at that time available for consultation, having been granted Leave of Absence from his duties as a Member of the Commission while absent from Europe on an Expedition to Netherland New Guinea. In order not to delay the consideration of Dr. Holthuis's application, Mr. Hemming thereupon himself submitted the following supplementary application on the family-group-name implications of Dr. Holthuis's proposals :—

Proposed validation, under the Plenary Powers, of the family-group names "PROCESSIDAE" and "UPOGEBIINAE" (Class Crustacea, Order Decapoda)

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The present application, which is concerned with the proposed validation of the family-group names PROCESSIDAE Ortmann, 1896, and UPOGEBIINAE Borradaile, 1903 (Class Crustacea, Order Decapoda), is in the nature of a supplement to the proposal by Dr. L. B. Holthuis (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) that these family-group names should be placed on the *Official List of Family-Group Names in Zoology*. It is concerned only with the question of the procedure required to give effect to Dr. Holthuis's proposal.

2. In a note on a similar problem which arises in connection with the family-group name XANTHINAE Dana, 1851 (Hemming, 1954, *Bull. zool. Nomencl.* 9 : 329—331) I have explained how, when the Fourteenth International Congress of Zoology, Copenhagen, 1953, decided to insert in the *Règles* a provision applying the priority principle to family-group names, it realised that, unless mitigated in some simple manner, this decision would be likely to give rise to undesirable name-changing. The Congress accordingly inserted in the *Règles* a provision under which, subject to compliance with a simple procedure, an author who considers that in any given case the application of

priority is "in conflict with current usage" may set aside priority in the case concerned (1953, *Copenhagen Decisions zool. Nomencl.* : 33, Decision 54(1)). Action so taken is liable to challenge and in any case does not become definitively valid for a period of two years. This procedure offers certain conveniences but it is not appropriate in cases where the question of a family-group name arises in connection with an application for a given generic name to be placed on the *Official List of Generic Names in Zoology*, for, under the Regulations governing the *Official Lists*, the Commission is required in such a case to take account also of the position at the family-group level. Accordingly, in such cases, it is necessary to have resort to the Plenary Powers procedure, in order to secure the desired stability in family-group nomenclature.

3. Dr. Holthuis has explained (Holthuis, 1954, *Bull. zool. Nomencl.* 9 : 338) that the well-known family name PROCESSIDAE Ortmann, 1896, is a junior subjective synonym both of NIKIDAE Bate, 1888, and of HECTARTHROPIDAE Bate, 1888, while the UPOGEBIINAE Borradaile, 1903, is a junior objective synonym of the family name GEBIDAE Dana, 1852. In each of these cases Dr. Holthuis proposes that, owing to the conflict of the principle of priority with current usage, the junior synonym currently in use should be accepted. For the reasons which have been explained in paragraph 2 above, this end can be attained in the present case only by the suppression of the senior synonyms under the Plenary Powers.

4. It is accordingly proposed that in the interest of maintaining current usage at the family-group-name level (as enjoined by the Copenhagen Congress) the International Commission should use its Plenary Powers to suppress the under-mentioned family-group names for the purposes of the Law of Priority but not for those of the Law of Homonymy :—(a) NIKIDAE Bate, 1888 (type genus : *Nika* Risso, 1816) ; (b) HECTARTHROPIDAE Bate, 1888 (type genus : *Hectarthropus* Bate, 1888) ; (c) GEBIDAE Dana, 1852 (type genus : *Gebia* Leach, 1815). Dr. Holthuis has already asked that the name GEBIDAE Dana, 1852, be placed on the *Official Index of Rejected and Invalid Family-Group Names in Zoology*. Similar action should now be taken as regards the two other names dealt with in the present application.

II. THE SUBSEQUENT HISTORY OF THE CASE

3. **Registration of the present application** : Upon the receipt of Dr. Holthuis's application the question of securing that the

generic names *Processa* Leach, [1815], and *Upogebia* [Leach], [1814], should be the oldest available names for the genera commonly so known was allotted the Registered Number Z.N.(S.) 830.

4. Publication of the present application : The present application, together with Mr. Hemming's supplementary application, was sent to the printer on 13th October 1954 and both papers were published on 30th December in the same year in Part 11 of Volume 9 of the *Bulletin of Zoological Nomenclature* (Holthuis, 1954, *Bull. zool. Nomencl.* 9 : 334—340 ; Hemming, 1954, *ibid.* 9 : 340—341).

5. Issue of Public Notices : Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* 4 : 51—56), Public Notice of the possible use by the International Commission on Zoological Nomenclature of its Plenary Powers in the present case, including Mr. Hemming's supplementary application in regard thereto, was given on 30th December 1954 (a) in Part 11 of Volume 9 of the *Bulletin of Zoological Nomenclature* (the Part in which Dr. Holthuis's application and Mr. Hemming's supplementary proposals were published) and (b) to the other prescribed serial publications. In addition, such Notice was given also to certain general zoological serial publications.

6. Support received from Dr. Julian Huxley (London) : The publication of Dr. Holthuis's application and Mr. Hemming's supplementary proposals elicited support for the action proposed from Dr. Julian Huxley (*London*) who on 28th January 1955 addressed to the Office of the Commission the following letter in which he intimated his support for the proposals submitted in this and in certain other applications which had recently been published in the *Bulletin of Zoological Nomenclature* :—

With reference to your notice in *Nature* last week, I write to say that I hope very much that the names *Dama*, *Formica rufa* and *Upogebia* will be validated as suggested, as any change would result in grave inconvenience to working biologists.

7. No objection received : No objection to the action proposed in the papers in regard to the present case submitted respectively by Dr. Holthuis and by Mr. Hemming was received from any source.

III. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

8. Issue of Voting Paper V.P.(55)12 : On 5th August 1955 a Voting Paper (V.P.(55)12) was issued in which the Members of the Commission were invited to vote either for, or against, " the proposal relating to the generic names *Upogebia* [Leach], [1814], and *Processa* Leach, [1815], set out in Points (1) to (6) on pages 338—340 of Volume 9 of the *Bulletin of Zoological Nomenclature* " [i.e. in the Points numbered as above in paragraph 12 of the application by Dr. Holthuis reproduced in the first paragraph of the present *Opinion*] " subject to the modification of certain of the proposals relating to family-group names specified in paragraph 4 on page 341 of the same volume of the *Bulletin* " [i.e. in paragraph 4 of the paper by Mr. Hemming, reproduced in paragraph 2 of the present *Opinion*].

9. The Prescribed Voting Period : As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 5th November 1955.

10. Particulars of the Voting on Voting Paper V.P.(55)12 : At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(55)12 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-three (23) Commissioners (arranged in the order in which Votes were received) :*

Bodenheimer ; Holthuis ; Riley ; Vokes ; Stoll ; Hering ; Bradley (J.C.) ; Lemche ; Prantl ; Hankó ; Mayr ; do Amaral ; Esaki ; Kühnelt ; Dymond ; Sylvester-Bradley ; Key ; Mertens ; Bonnet ; Hemming ; Miller ; Cabrera ; Jaczewski ;

(b) *Negative Votes :*

None ;

(c) *Voting Papers not returned, two (2) :*

Boschma¹; Tortonese¹.

11. Declaration of Result of Vote : On 6th November 1955, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(55)12, signed a Certificate that the Votes cast were as set out in paragraph 10 above and declaring that the proposals submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

12. Preparation of the Ruling given in the present “ Opinion ” : On 20th May 1956, Mr. Hemming prepared the Ruling given in

¹ After the close of the Prescribed Voting Period affirmative votes were received from Commissioner Boschma and Commissioner Tortonese.

the present *Opinion* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposals approved by the International Commission in its Vote on Voting Paper V.P.(55)12.

13. Original References : The following are the original references for the generic and specific names placed on *Official Lists* and *Official Indexes* by the Ruling given in the present *Opinion* :—

anomalus, *Cancer* (*Astacus*), Herbst, 1804, *Vers. Naturgesch. Krabben Krebse* 3(4) : 45

Callianassa [Leach], [1814], Brewster's *Edinburgh Ency.* 7(2) : 400

Calypso Risso, 1816, *Hist. nat. Crust. Nice* : 74

canaliculata, *Processa*, Leach, [1815], *Malac. podophth. Brit.* (4) : expl. pl. 41

Egeon Bosc, 1813, *Nouv. Bull. Sci. Soc. philomat. Paris* 3(66) : 233

Egeon Risso, 1816, *Hist. nat. Crust. Nice* : 99

Galathea Fabricius, 1793, *Ent. syst.* 2 : 471

Gebia Leach, 1815, *Trans. linn. Soc. Lond.* 11 : 342

Gerbios Bosc, 1813, *Nouv. Bull. Sci. Soc. philomat. Paris* 3(66) : 233

Janira Risso, 1816, *Hist. nat. Crust. Nice* : 175

Processa Leach, [1815], *Malac. podophth. Brit.* (4) : expl. pl. 41

stellatus, *Cancer* (*Astacus*), Montagu, 1808, *Trans. linn. Soc. Lond.* 9 : 89

strigosus, *Cancer*, Linnaeus, 1761, *Fauna svec.* (ed. 2) : 495

subterraneus, *Cancer* (*Astacus*), Montagu, 1808, *Trans. linn. Soc. Lond.* 9 : 88

Thalassalpes Bosc, 1813, *Nouv. Bull. Sci. Soc. philomat. Paris* 3(66) : 233

Thalassina Latreille, 1806, *Gen. Crust. Ins.* 1 : 51

Upogebia [Leach], [1814], Brewster's *Edinburgh Ency.* 7(2) : 400

14. The following is the reference for the selection of the type species for the genus *Galathea* Fabricius, 1793, specified in the Ruling given in the present *Opinion* :—Latreille, 1810. *Consid. gén. Ordre nat. Anim. Class. Crust. Arachn. Ins.* : 422, 101.

15. The following are the original references for the family-group names placed on the *Official List* or on the *Official Index* established for recording the names of taxa belonging to the family-group of categories by the Ruling given in the present *Opinion* :—

CALLIANASSIDAE Dana, 1852, *Proc. Acad. nat. Sci. Philad.* **6** : 12, 14, 19 (type genus : *Callianassa* [Leach], [1814])

GALATEADAE Samouelle, 1819, *Entomologist's useful Compendium* : 92 (type genus : *Galathea* Fabricius, 1793)

GALATHEIDAE White, 1847, *List. Crust. Brit. Mus.* : 65 (correction of the Invalid Original Spelling GALATEADAE Samouelle, 1819)

GEBIDAE Dana, 1852, *Proc. Acad. nat. Sci. Philad.* **6** : 12, 13, 19 (type genus : *Gebia* Leach, 1815)

GEBIIDAE Miers, 1876, *Cat. Crust. New Zealand* : 70 (correction of the Invalid Original Spelling GEBIDAE Dana, 1852)

HECTARTHROPIDAE Bate, 1888, *Rep. Voy. Challenger*, Zool. **24** : 481, 883 (type genus : *Hectarthropus* Bate, 1888)

NIKIDAE Bate, 1888, *Rep. Voy. Challenger*, Zool. **24** : xii, xli, 480, 503 (type genus : *Nika* Risso, 1816)

PROCESSIDAE Ortmann, 1896, *Zool. Jb. Syst.* **9** : 415, 424 (type genus : *Processa* Leach, [1815])

THALASSINIDAE White, 1847, *List Crust. Brit. Mus.* : 70 (correction of the Invalid Original Spelling THALASSINIDES Latreille, 1831)

THALASSINIDES Latreille, 1831, *Cours d'Entomol.* : 377 (type genus *Thalassina* Latreille, 1806)

UPOGEBIINAE Borradaile, 1903, *Ann. Mag. nat. Hist.* (7) **12** : 542 (type genus : *Upogebia* [Leach], [1814])

16. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Opinion* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

17. The present *Opinion* shall be known as *Opinion* Four Hundred and Thirty-Four (434) of the International Commission on Zoological Nomenclature.

DONE in London, this Twentieth day of May, Nineteen Hundred and Fifty-Six.

*Secretary to the International Commission
on Zoological Nomenclature*

FRANCIS HEMMING